

2861580

https://www.phoenixcontact.com/us/products/2861580

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Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected devices.

Your advantages

- · Remote bus connections using copper technology
- An Inline station can be supplied with all of the required 24 V voltages for low-level signals
- · Automatic configuration of the outgoing interface as a remote bus or local bus interface
- Up to 15 connected terminals with remote bus branch supported
- · Electrical isolation of the remote bus segments

Commercial data

| Item number | 2861580 |
|--------------------------------------|---------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DR01 |
| Product key | DRI111 |
| Catalog page | Page 107 (C-6-2019) |
| GTIN | 4017918894436 |
| Weight per piece (including packing) | 264 g |
| Weight per piece (excluding packing) | 214 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |



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Technical data

Dimensions

| Dimensional drawing | 135 119,0 3000 0 0 0 0 |
|---------------------|------------------------------|
| Width | 48.8 mm |
| Height | 135 mm |
| Depth | 71.5 mm |

Notes

Note on application

| Note on application | Only for industrial use |
|-------------------------|---|
| Utilization restriction | |
| CCCex note | Use in potentially explosive areas is not permitted in China. |

Interfaces

INTERBUS

| Number of interfaces | 2 |
|----------------------|-------------------------|
| Connection method | Inline shield connector |
| Transmission speed | 500 kbps |
| Transmission physics | Copper |

| Number of interfaces | 1 |
|----------------------|--------------------|
| Connection method | Inline data jumper |
| Transmission speed | 500 kbps |

System properties

System limits

| • | |
|---|---------|
| Number of supported devices | max. 63 |
| Number of local bus devices that can be connected | max. 63 |
| Number of devices with parameter channel | max. 62 |
| Number of supported branch terminals with remote bus branch | max. 15 |

Modula

| Module | |
|-------------------|----|
| ID code (dec.) | 04 |
| ID code (hex) | 04 |
| Length code (hex) | 00 |



2861580

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| Length code (dec) | 00 |
|---|---|
| Process data channel | 0 bit |
| Input address area | 0 bit |
| Output address area | 0 bit |
| Register length | 0 bit |
| duct properties | |
| Product type | I/O component |
| Product family | Inline |
| Туре | modular |
| Scope of delivery | including Inline connectors and marking fields |
| Diagnostics messages | I/O error yes, if the segment voltage U _S is not present |
| sulation characteristics | |
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |
| ctrical properties | |
| Maximum power dissipation for nominal condition | 3 W |
| Protective circuit | Short-circuit protection of the communications power; electroni |
| | Short-circuit protection of the analog supply; electronic |
| | Surge protection (segment supply, main supply, bus coupler supply); Input protective diodes (can be destroyed by permane overload)Pulse loads up to 1500 W are short circuited by the input protective diode. |
| | Protection against polarity reversal (segment supply/main supply); Parallel diodes for protection against polarity reversal; the event of an error the high current flowing through the diode causes the fuse connected upstream to blow. |
| | Protection against polarity reversal (bus coupler supply); Serial diode in the lead path of the power supply unit; in the event of error only a low current flows. In the event of an error, no fuse trips within the external power supply unit. |
| otentials: Bus coupler supply U _{BK} ; Communications po oupler supply. | wer $\rm U_L$ (7.5 V) and the analog supply $\rm U_{ANA}$ (24 V) are generated from the bus |
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC 30 V DC (including all tolerances, including ripple |
| Current draw | max. 1.25 A (with max. number of connected I/O terminal block |
| | typ. 100 mA (without connected I/O terminal blocks) |
| otentials: Communications power (U _L) | |
| Supply voltage | 7.5 V DC |
| otentials: Supply of analog modules (U _{ANA}) | |
| Supply voltage | 24 V DC |
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2861580

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| Supply voltage | 24 V DC (via Inline connector) |
|---|--|
| Supply voltage range | 19.2 V DC 30 V DC (including all tolerances, including ripple) |
| otentials: Segment circuit supply (U _S) | |
| Supply voltage | 24 V DC (via Inline connector) |
| Supply voltage range | 19.2 V DC 30 V DC (including all tolerances, including ripple) |
| lectrical isolation/isolation of the voltage ranges | |
| Test voltage: 5 V supply, incoming remote bus / 5 V supply outgoing remote bus | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply incoming remote bus / 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply, incoming remote bus / 24 V main supply, 24 V segment supply | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply incoming remote bus / functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply outgoing remote bus / I/O ($\mathrm{U_M}$, $\mathrm{U_S}$) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply outgoing remote bus / communications power (U_{BK} , U_{L} , U_{ANA}) | 500 V AC, 50 Hz, 1 min |
| Test voltage: 5 V supply outgoing remote bus / functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: Communications power ($\mathbf{U}_{\mathrm{BK}},\mathbf{U}_{\mathrm{L}},\mathbf{U}_{\mathrm{ANA}}$) / functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: Communications power ($\rm U_{BK}, \rm U_{L}, \rm U_{ANA}$) / I/O ($\rm U_{M}, \rm U_{S}$) | 500 V AC, 50 Hz, 1 min |
| Test voltage: I/O (U _M , U _S) / functional ground | 500 V AC, 50 Hz, 1 min |

Connection data

Connection technology Connection name

| Conductor connection | |
|----------------------------------|------------------------|
| Connection method | Spring-cage connection |
| Conductor cross section rigid | 0.08 mm² 1.5 mm² |
| Conductor cross section flexible | 0.08 mm² 1.5 mm² |
| Conductor cross section AWG | 28 16 |
| Stripping length | 8 mm |

Inline connector

Inline connector

| Connection method | Spring-cage connection |
|-----------------------------------|------------------------|
| Conductor cross section, rigid | 0.08 mm² 1.5 mm² |
| Conductor cross section, flexible | 0.08 mm² 1.5 mm² |
| Conductor cross section AWG | 28 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| Ambient temperature (operation) -25 °C 55 °C | Ambient temperature (operation) | -25 C 55 C |
|--|---------------------------------|------------|
|--|---------------------------------|------------|



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Mounting type

| Degree of protection | IP20 |
|--|---|
| Air pressure (operation) | 70 kPa 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa 106 kPa (up to 3000 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C 85 °C |
| Permissible humidity (operation) | 10 % 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % 95 % (non-condensing) |
| | |
| ndards and regulations | |

DIN rail mounting

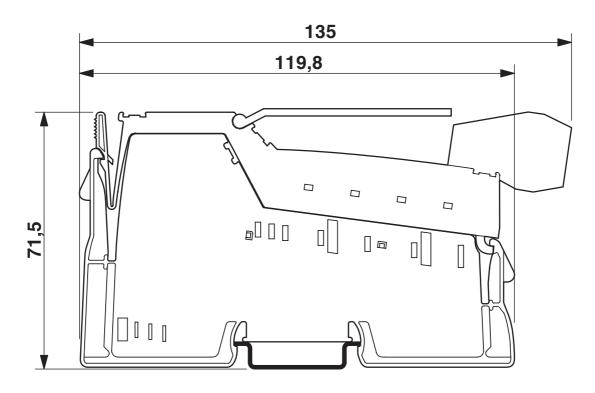


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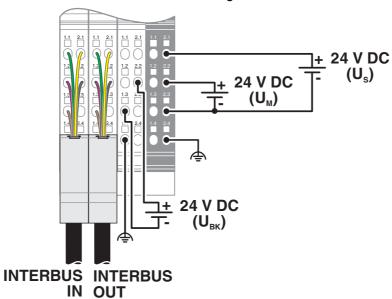


Drawings

Dimensional drawing



Connection diagram

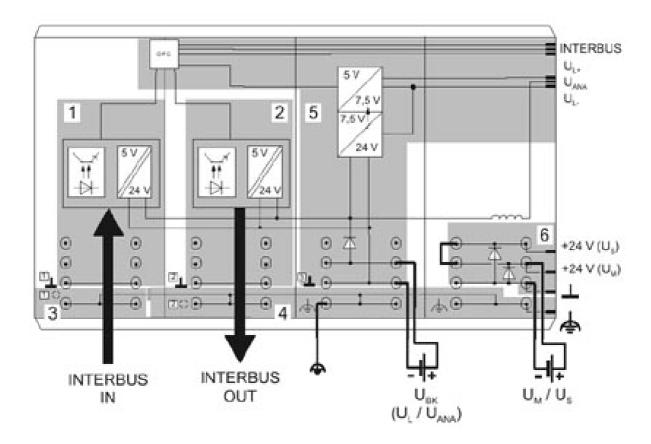




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Block diagram





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Approvals

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EAC

Approval ID: TR TS_S_03508-21



DNV GL

Approval ID: TAA00001KV



BV

Approval ID: 20977/C0 BV

BSH

Approval ID: 658a



RINA

Approval ID: ELE121121XG

ABS

Approval ID: 22-2226444-PDA



cULus Recognized

Approval ID: E140324



LR

Approval ID: LR23398855TA



cULus Listed

Approval ID: E199827



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Classifications

UNSPSC 21.0

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| | ECLASS-13.0 | 27242608 | | | |
|------|-------------|----------|--|--|--|
| ETIM | | | | | |
| | ETIM 9.0 | EC001604 | | | |
| U | ISPSC | | | | |

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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|---|
| Exemption | 7(a), 7(c)-l |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | f063e663-09ff-4353-9f8d-0418b40ec074 |

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